

WHAT IS CLAIMED IS:

1. A method of forming a coated substrate which comprises providing a plasma polymer coating containing residual unpolymerized polymerizable functional groups on a substrate, applying a radiation curable composition to the plasma polymer-coated substrate, wherein the radiation curable composition comprises at least one component which forms a reaction product with the residual unpolymerized polymerizable functional groups when radiation is applied, and radiation curing the radiation curable composition.
2. A method of forming a coated substrate according to claim 1, wherein the radiation curable composition is a radiation curable gravure ink.
3. A method of forming a coated substrate according to claim 1, wherein the radiation curable composition is a radiation curable flexographic ink.
4. A method of forming a coated substrate according to claim 1, wherein the radiation curable composition is a radiation curable lithographic ink.
5. A method of forming a coated substrate according to claim 1, wherein the radiation curable composition is a radiation curable ink comprising a colorant composition and a radiation curable liquid vehicle.
6. A method of forming a coated substrate according to claim 1, wherein the radiation curable vehicle comprises an alpha, beta-ethylenically unsaturated compound.
7. A method of forming a coated substrate according to claim 6, wherein the alpha, beta-ethylenically unsaturated compound comprises a (meth)acrylate.

8. A method of forming a coated substrate according to claim 1, wherein the plasma polymer coating comprises a polymerized epoxide or (meth)acrylate.
9. A method of forming a coated substrate according to claim 1, further comprising forming said plasma polymer coating.
10. A method of forming a coated substrate according to claim 1, wherein said curing is electron beam curing.
11. A method of forming a coated substrate according to claim 1, wherein said curing is UV curing.
12. A coated substrate comprising a substrate having a plasma polymer coating thereon and a radiation cured composition on the plasma polymer-coated substrate, wherein a portion of the plasma polymer and a portion of the radiation cured composition have formed a reaction product.
13. A coated substrate according to claim 12, wherein radiation cured composition is a radiation cured gravure ink.
14. A coated substrate according to claim 12, wherein the radiation cured composition is a radiation cured flexographic ink.
15. A coated substrate according to claim 12, wherein the radiation cured composition is a radiation cured lithographic ink.
16. A coated substrate according to claim 12, wherein the radiation cured composition is a radiation cured ink comprising a colorant and a radiation cured liquid vehicle.

17. A coated substrate according to claim 16, wherein the vehicle comprises a polymerized (meth)acrylate.
18. A coated substrate according to claim 1, wherein the plasma polymer coating comprises a polymerized epoxide or (meth)acrylate.
19. A coated substrate according to claim 18, wherein the radiation cured composition is a radiation cured ink comprising a colorant and a radiation cured liquid vehicle.
20. A coated substrate according to claim 19, wherein the vehicle comprises a polymerized (meth)acrylate.